Form 3400-11 (September 1967) (formerly 4-683)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FIELD NOTES

Mineral Survey number 4756 State Arizona Land District Arizona

Of the Survey of the Mining Claim of (name and address of Claimant) Phelps Dodge Corp. c/o Evans, Kitchel & Jenckes 363 N. 1st Ave. Phoenix, Arizona 85003

Known as the (name of group, if any)

		NAME OF LOCATION		DA	TE
		NAME OF LOCATION		LOCATED	AMENDED
COPPER BR	OOM ONE			9/14/73	9/26/7
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				Table 1	
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ining district	Copper Basin		County Yavapa	i	
ection	Township	Range	Meridian	Survey under	order detec

Section 21 Township 13 North Range 3 West Survey under order dated Gila & Salt River October 5, 1973 Survey commenced Dec. 20, 1973 Survey completed Dec. 22, 1973 Name of Mineral Surveyor Robert Lenon

FEET

This survey was made with a Lietz Precise Transit, No. 65718, with horizontal limb 5-1/2 ins. diam., having two double opposite verniers reading to 20 seconds of arc, and full vertical circle 4-1/2 ins. diam., having one double vernier reading to 1 minute of arc. The eyepiece has a removable colored glass for making direct observations upon the sun. The instrument was in good condition at the time of the survey and all adjustments were in good order.

All azimuths in this record were referred to the meridian of the Phelps-Dodge Copper Basin Project triangulation-system, set out on a local plane grid, as checked by me and found to be correct by the observations set out below.

October 21, 1973, at Triangulation Station "Copper Broom" in Latitude 34°29'30" N. and Longitude 112°35' W., I make a series of four altitude observations upon the sun for azimuth at approximately equal time intervals, two each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angles from Triangulation Station "Clipper", SE'ly, to the sun.

Mean time of observation, 105th meridian standard time:

9h07m a.m. 9h11m a.m.

Declination of sun at mean time of observation:

10°48'30" S.

Mean observed vertical angles to sun's center:

27°24'

28°14'

Mean horizontal angles from reference point to sun's center:

159°11'30" 160°16'

True bearing of the line "Copper Broom" to "Clipper" N. 31°27' W.

The lines were measured with a Hewlett-Packard distance meter, and a Chicago steel tape, 300 feet in length, graduated every foot, with the end feet graduated to tenths; which was compared with a Lufkin standard at the time of beginning the survey and found correct.

All lines and connections of this survey were run by direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of $14^{\circ}00'$ E.

Mineral Survey No. 4755

COPPER BROOM ONE Lode

At Cor. No. 1, COPPER BROOM ONE lode.

Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. χ -CBO-1-4756, from which

		Milleral Survey No. 4750
	FEET	The 1/4 sec. cor. of Secs. 16 and 21, T. 13 N., R. 3 W., G. & S.R.M., Arizona, bears N. 12°43'10" E., 1427.32 ft. dist.
		Cor. No. 4, M.S. No. 4488 Copper Broom Extension lode, bears S. 58°35'05" W., 852.49 ft. dist.
		Cor. No. 3, Copper Broom Fraction lode, on line 3-4, Copper Broom Extension lode, both of M.S. No. 4488, bears S. 45°04'25" W., 684.42 ft. dist., an iron pipe, l in. diam., 6 ins. above ground, with galvanized cap mkd. X-CBF-3-4488, stone mound alongside.
		Cor. No. 2, M.S. No. 4488 Victoria No. 2 lode, bears N. 0°25' E., 34.65 ft. dist.
		Cor. No. 1, M.S. No. 514 Head Center lode, bears N. 28°32'50" E., 233.32 ft. dist.
		Cor. No. 6, M.S. No. 514 Head Center lode, bears S. 86°37' W., 118.36 ft. dist.
		Thence S. 36°06'20" E.
	30.	Gulch, 2 ft. wide; course West.
	205.	Lode line; discovery point bears S. 53°53'40" W. 1425 ft. dist.
	500.00	Cor. No. 2, on line 1-2, M.S. No. 4488 Monopoly lode.
		Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. X-CBO-2-4756, from which
		Cor. No. 2, M.S. No. 4488 Monopoly lode, bears N. 53°53'40" E., 4.74 ft. dist., l in. iron pipe, 6 ins. above ground, with galvanized cap mkd. X-M-2-4488, stone mound alongside.
		Thence S. 53°53'40" W.
	75.	Gulch, 5 ft. wide; course S. 75° W. to this point and West below this point.
	284.32	Intersect line 3-4, M.S. No. 4488 Copper Broom Extension lode, at a point from which Cor. No. 4 bears N. 80°53' W., 802.59 ft. dist.
	1053.32	Intersect line 3-4, M.S. No. 4488 Copper Broom Fraction lode, at a point from which Cor. No. 4 bears S. 7°33'10" W., 54.45 ft. dist., an iron pipe, 1 in. diam., 6 ins. above ground, with galvanized cap mkd. X-CBF-4-4488, stone mound alongside.
100	1130.00	Intersect line 4-1, M.S. No. 4488 Copper Broom Fraction lode, at a point from which Cor. No. 4 bears S. 80°53' E., 55.50 ft. dist.
	1135.	Road, 12 ft. wide; bears N. 30° W. and S. 30° E.
	1420.	Road, 12 ft. wide; bears N. 35° W. and S. 20° E.

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4

	Mineral Survey No. 4/56
1496.00	Cor. No. 1, M.S. No. 4488 Monopoly lode, on line 5-6, M.S. No. 515 Copper Bell lode, at a point from which Cor. No. 5 bears N. 36°11' W., 670.80 ft. dist.
	Found an iron pipe, 1 in. diam., 6 ins. above ground, stone mound alongside, with galvanized cap mkd. X-M-1-4488.
1500.00	Cor. No. 3.
	Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. X-CBO-3-4756, from which
	Cor. No. 4, M.S. No.4488 Copper Broom Fraction lode, bears N. 59°23'40" E., 410.98 ft. dist., an iron pipe, l in. diam., 6 ins. above ground, with galvanized cap mkd. X-CBF-4-4488, stone mound alongside.
	Thence N. 36°06'20" W.
295.00	Lode line; discovery point bears N. 53°53'40" E. 75 ft. dist.
372.87	Intersect line 4-1, M.S. No. 4488 Copper Broom Fraction lode, at a point from which Cor. No. 4 bears S. 80°53' E., 580.80 ft. dist.
400.	Road, 12 ft. wide; bears N. 60° E. and S. 75° W.
515.	Gulch, 7 ft. wide at junction. N'ly branch 5 ft. wide, course S. 50° W.to here; S'ly branch 3 ft. wide, course N. 45° W. to here; course of combined channels is S. 50° W. below this point.
530.	Road, 12 ft. wide; bears N. 80° W. and S. 80° E.
595.00	Cor. No. 4.
	Set an iron pin, 5/8 in. diam., 24 ins. long, 18 ins. in the ground, stone mound alongside, with aluminum cap mkd. X-CBO-4-4756, from which
	Phelps-Dodge triangulation-station "Copper Broom" bears N. 40°21'20" W., 191.16 ft. dist.
	U.S. M.M. #1 bears N. 83°19'15" W., 1729.18 ft. dist.
	Cor. No. 5, M.S. No. 515 Copper Bell lode, bears N. 33°46'15" W., 75.86 ft. dist., an old stone mound.
	Thence N. 57°31'05" E.
3.20	Intersect line 5-6, M.S. No. 515 Copper Bell lode, at a point from which Cor. No. 5 bears N. 36°11' W., 76.00 ft. dist., heretofore described.
625.	Gulch, 5 ft. wide; course S. 40° W.

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5	668.53	Intersect line 2-3, Copper Broom Fraction lode, common with line 3-4, Copper Broom Extension lode, both of M.S. No. 4488, at a point from which Cor. No. 4 of Copper Broom Extension lode, identical with Cor. No. 3 of Bonnie Doon lode M.S. No. 512, bears N. 80°53' W., 23.90 ft. dist., an iron pipe, l in. diam., 6 ins. above ground, with galvanized cap mkd. X-BD-3-512-CBE-4-4488, stone mound alongside.
	1430.	Gulch, 2 ft. wide; course S. 80° W.
	1503.00	Cor. No. 1, and place of beginning.
		AREAS Acres Total area, COPPER BROOM ONE lode18.854 Area in conflict with M.S. No. 4488 Copper Broom Extension lode6.584 M.S. No. 4488 Copper Broom Fraction lode7.199
		M.S. No. 4488, Copper Broom Fraction lode, exclusive of its conflict with M.S. No. 515 Copper Bell lode0.049 M.S. No. 515 Copper Bell lode, exclusive of its conflict with M.S. No. 4488, Copper Broom Fraction lode0.032
		LOCATION
		This survey is located in Sec. 21, T. 13 N., R. 3 W., G. & S.R.M., Arizona, and is identical with ammended location as marked on the ground. EXPENDITURES
		The improvements and the value of the labor and improvements made upon or for the benefit of the lode location embraced in said mining claim by the claimant or its grantors are as follows:
	No. 1	The discovery point of the COPPER BROOM ONE lode, being on the lode line, 75 ft. from a point on line 3-4, 295 ft. from Cor. No. 3. No value.
	No. 2	The location hole, a percussion-drill hole, 3 ins. diam. at the collar, 15 ft. deep, the center of which bears N. 9°52' W., 188.4 ft. from Cor. No. 3. Value, \$100.
	No. 3	A diamond drill hole, known as G-26, 3 ins. diam. at the collar, 1050 ft. deep, the center of which bears N. 18°24' W., 183.9 ft. from Cor. No. 3. Value, \$10,000.
	No. 4	A diamond drill hole, known as G-23, 3 ins. diam. at the collar, 1099 ft. deep, the center of which bears S. 66°34' W., 519.1 ft. from Cor. No. 2. Value, \$11,000.

FEET

OTHER CORNER DESCRIPTIONS AND SUPPLEMENTAL DATA

M.S. No. 514, Head Center lode: All corners except No. 5 were found; No. 2 is a large mound, with a very old squared cedar post in it, scribed: HCN-1; Nos. 1 and 4 are very old mounds of similar appearance; No. 3 is only the base of a very old monument. The position for Cor. No. 5 was calculated from Cor. No. 4, on record distance and bearing. Cor. No. 6 is a scattered old mound of large stones 8 ft. in diam. Record lengths of the sidelines are within 5 to 11 ft.; all bearings are reasonably close to record.

M.S. No. 515, Copper Bell lode: Cor. No. 5 is a large monument; the record bearing was used for line 5-6.

M.S. No. 4488: All corners found were iron pipes, 1 in. diam., 6 ins. above ground, stone mound alongside, with galvanized pipe-caps properly mkd. All pertinent data checked out very well; the scribed markings on the squared cedar posts are remarkably legible, and appear to be the original scribing. Cor. No. 4 Copper Broom Extension, had been set as identical with Cor. No. 3, M.S. No. 512 Bonnie Doon lode, and a large old monument is alongside this corner.

FIELD ASSISTANTS

Hoyd J. Patty Thomas S. Woods Stephen W. Dale Bruce A. Schreiber Transitman Head Chainman Rear Chainman Axeman

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

Name of Mineral Surveyor	Date
Robert Lenon	April 4, 1977
of Phelps Dodge Corp. known as the (<i>lode, placer, or mill site</i>) COPPER BROC situated in Section 21	Phoenix, Arizona I have carefully executed the survey of the claim,
This survey, designated as number 4756 , has been made in strict conformity with said order, the Manual the United States, and in specific manner described in the	
I FURTHER CERTIFY That the labor expended and importance (lode XXXXXxr) embraced in the said mining claim by claimant(s) or its	location(s)
grantors are fully stated in my report. The character, exte full detail. No portion of, or interest in, said labor and im cluded in the estimate of expenditures upon any other claim	nt, location, and itemized value are specified in provements so credited to this claim has been in-
Potagonia Animona	Do Ab
Patagonia, Arizona (Location)	(Signature of Mineral Surveyor)
CERTIFICATE OF A	PPROVAL
	Office
	Arizona State Office
	Phoenix, Arizona
	Date
	August 29, 1978
	surveyed unsurveyed Township 13 N., n the State of Arizona , Mineral Surveyor, aving been critically examined and the necessary
Boyd S. O(Authorized Signature)	Chief, Branch of Cadastral Survey (Title)
CERTIFICATE OF T	RANSCRIPT
I HEREBY CERTIFY That the foregoing transcript of field number is a true copy of the original field no	